

**SUMMARY OF THE  
NATIONAL ENVIRONMENTAL LABORATORY  
ACCREDITATION CONFERENCE (NELAC)  
ANNUAL MEETING**

**July 22 - 24, 1996**

The National Environmental Laboratory Accreditation Conference (NELAC) held its second annual meeting on July 22, 23, and 24, 1996 in Washington, D.C. More than 320 participants attended the meeting, including representatives from 46 states, 3 territories, 9 EPA Regional Offices, 7 EPA Headquarters offices, and 7 other Federal government agencies. The agenda for the three-day meeting included a day of individual committee meetings on Monday, July 22 and a two-day plenary session on Tuesday and Wednesday, July 23 and 24. Dr. Robert Stephens, Deputy Director for Science, Pollution Prevention, and Technology Program in California, and Chair of NELAC, presided over the meeting. All of the members of the NELAC Board of Directors were in attendance. Representing EPA were Ms. Jeanne Mourrain, Director of EPA's National Environmental Laboratory Accreditation Programs (NELAP), Mr. Ted Coopwood, Executive Secretary of NELAC, and Ms. Ramona Trovato, Chair of the Environmental Laboratory Advisory Board (ELAB).

Ms. Mourrain opened the Plenary Session with a brief historical review of NELAC. In her remarks, she emphasized that NELAC is the result of a strong partnership between EPA and the states and has, since its inception, involved meaningful participation by all stakeholders in the laboratory accreditation process, from both the public and private sectors.

**Chairman's Address to NELAC**

In an opening address to the Conference, Dr. Stephens recognized the significant progress that has been made by NELAC toward the adoption of a permanent Constitution and Bylaws and establishment of comprehensive uniform national standards. Dr. Stephens thanked all those who have contributed to the progress made since the last NELAC meeting in February of 1995. He noted that when NELAC began 18 months ago, it was a diverse group of professionals with a diverse understanding of the concept of a uniform national program for laboratory accreditation. By the time of the NELAC Interim Meeting, however, a greater understanding of the complexity and array of issues to be addressed was clearly apparent in all participants. Dr. Stephens concluded by stating that since the Interim meeting, many issues have been addressed and resolved and a strong working partnership has been forged between the public and private components of NELAC. This partnership reflects the fact that NELAC participants are assuming ownership of NELAC and the NELAC standards.

Dr. Stephens noted three important issues that remain to be addressed. They are:

- The degree to which state supplemental standards will be used in NELAC and the circumstances under which state supplemental standards should be deemed appropriate;
- The need to recognize, at every stage of the standards development process, that the purpose of the NELAC standards is to meet the needs of Federal and

state regulatory programs and not to drive the requirements of regulatory programs; and

- The provisions for fees associated with reciprocal recognition of laboratory accreditation with the goal of achieving full reciprocity among the states.

Dr. Stephens noted that the issues of state supplemental standards and licensing/registration will be taken up by the Program Policy and Structure Committee, under the direction of Dr. Kenneth Jackson of the New York Department of Health (Dr. Jackson will assume the position of Committee Chair in place of Dr. Charles Hartwig, who became NELAC Chair at the close of the meeting). The issues will be addressed in the next published version of Chapter 1 of the NELAC Standards. Dr. Stephens asked that all participants bear in mind throughout the meeting that NELAC's purpose is not to define data requirements for Federal and state regulators, but rather to develop standards that meet regulatory needs.

In closing, Dr. Stephens noted that NELAC was still a "draft" organization and that, as such, remained vulnerable to political and other challenges. He asked the Conference to work toward adopting as many of the proposed standards as possible so that NELAC can become a reality as soon as possible.

### **Keynote Address**

Mr. Bob Perciasepe, EPA's Assistant Administrator for Water, gave the conference keynote address. Mr. Perciasepe told the Conference that the concept of NELAC is consistent with the government's recent emphasis on common sense approaches. He stated that EPA's support for NELAC remains strong and that EPA applauds, in particular, NELAC's goals of achieving uniform standards and reciprocity through a consensus approach.

Mr. Bob Perciasepe noted numerous areas for continuing coordination between NELAC and EPA's Water Programs. Among them were:

- Streamlining the system of approval for new and modified analytical methods used for water monitoring;
- Redesigning EPA's water laboratory performance evaluation program;
- Implementing the revised Manual for Certification of Laboratories Analyzing Drinking Water; and
- Incorporating the NELAC standards into EPA's Water Programs.

He encouraged NELAC to remain committed to their original purpose and stated that he will continue to support participation in NELAC by EPA.

## **ELAB Report**

Ms. Ramona Trovato, Director of EPA's Office of Radiation and Indoor Air and Chair of the Environmental Laboratory Advisory Board (ELAB), reported on the results of the ELAB meeting held on Sunday, July 21. She opened by stating that ELAB would like to commend the NELAC committee chairs for their dedicated efforts to ensure that the views of the private sector have been taken into account in the standards development process. ELAB members especially noted the efforts made by Quality Systems committee chair, Ms. Sylvia Labie, of the Florida Department of Environmental Protection, toward achieving consistency with the pertinent ISO standards. Ms. Trovato also announced that Dr. Wilson Hershey, of Lancaster Laboratories, has joined her as Co-Chair of ELAB.

As a result of its meeting on July 21, ELAB made the following findings and recommendations:

- The ELAB Subcommittee on GLP laboratories will hold a 2-3 day meeting in October, in conjunction with the annual meeting of the Society for Quality Assurance (SQA) in Baltimore, MD.
- With regard to proficiency testing, ELAB recommends that laboratories be required to participate in and pass two studies per year. ELAB further recommends that the NELAC Chair establish an Ad Hoc Committee to recommend the elements of the NELAC data base, including those related to proficiency testing.
- On the advice of a subcommittee, ELAB recommends that the NELAC Contributors Committee be eliminated. In order to ensure that Contributing Members are given ample opportunity to comment and raise issues, ELAB will conduct open forums at each annual and interim meeting (two such sessions were held on July 21 and 22).
- ELAB recommends that the term "Accrediting Body," as used in the NELAC Constitution, Bylaws, and Standards, be replaced with the term "Assessor Body" in order to better reflect the role of third party laboratory assessor organizations in NELAC. ELAB has formed a subcommittee, to be led by Mr. Milton Bush of the 'M Companies, to address the role of third party assessors in NELAC.
- ELAB members recognized several issues concerning implementation of performance based measurement system and particularly interpretation of EPA's performance based measurement system record keeping and documentation requirements by the states. ELAB has established a Subcommittee, to be led by Dr. Kathy Hillig of the Chemical Manufacturers Association and BASF Corporation, to address this issue.

Ms. Trovato also noted that the following issues had been raised during the ELAB open forums:

- The economic impact of the NELAC Standards and whether the level of detail of the Standards will have the effect of causing small laboratories to shut down.

- The need for NELAP to assist states in setting up NELAC compliant programs.
- Whether NELAC accreditation will be granted based on fields of testing, analytical methods, analytes, or on some other basis.
- How to include laboratories and accreditation programs belonging to Native American Tribes in NELAC.

All of these issues will be presented to ELAB for their consideration in the near future.

### **Election of Officers**

Dr. Henry Bradford, of the Louisiana State Department of Health and Hospitals and Chair of the NELAC Nominating Committee, placed the following names in nomination for NELAC offices:

Dr. Charles Brokopp, of the Utah State Health Laboratory, for the position of NELAC Board Member-At-Large;

Dr. Belinda Collins, of the National Institute for Standards and Technology, for the position of NELAC Board Member-At-Large; and

Ms. Carol Batterton, of the Texas Natural Resource Conservation Commission, for the position of NELAC Chair-Elect

All three were elected by a vote of acclamation.

### **Voting Session**

Following a brief review of the NELAC voting procedures, presented by Mr. Ted Coopwood, Dr. Stephens presided over the voting session to adopt the NELAC Constitution, Bylaws and portions of the NELAC Standards. During the session, each Committee Chair presented a summary of changes made to their documents as a result of the committee meetings held on Monday, July 22, and, on behalf of their respective committees, requested that all or portions be adopted by a vote of the Conference. Following is a brief summary of the voting:

#### **Program Policy and Structure**

Dr. Charles Hartwig, of the Florida Department of Health and Rehabilitative Services and Chair of the Program Policy and Structure Committee, presented a summary of the significant changes made to the NELAC Constitution and Bylaws since the February 1995 Annual Meeting. These included:

- Modifying Article III of the constitution to identify City/County government representatives as Contributors.

- Modifying Article IV of the constitution to add five Contributors to the Nominating Committee;
- Modifying Article IX of the Constitution to require that changes in the Bylaws be approved by a simple majority rather than by a two-thirds majority;
- Modifying Article VI of the Bylaws to add five Contributors to each committee;
- Modifying Article VII, Section 1 of the Bylaws to more precisely define the process by which state representatives are appointed, expanding EPA Regional Office representatives from seven to ten, specifying appointment of representatives from each of six cabinet-level Federal agencies, and adding a representative from the Nuclear Regulatory Commission;
- Modifying Article VII, Section 3 of the Bylaws to define quorum in the House of Representatives as 50 percent of the state and territorial representatives and 50 percent of the Federal representatives, and declaring motions passed with a simple majority instead of a two-thirds majority.

In addition to these changes, the following changes to committees have been made:

- The name of the Conference Management and Funding Committee has been changed to the Conference Management Committee.
- The Auditing committee has been deleted.
- The Liaison Committee has been combined with the Education and Outreach Committee.
- The Membership Committee has been combined with the Education and Outreach Committee and the name of the resulting committee has been changed to the Membership and Outreach Committee.
- The name of the Program Structure Committee has been changed to the Program Policy and Structure Committee.
- The name of the Regulatory Committee has been changed to the Implementation Committee.
- The name of the Performance Evaluation Testing Committee has been changed to the Proficiency Testing Committee.

Dr. Hartwig entered a motion to adopt both the revised Constitution and the revised Bylaws by a vote of the conference. Both motions were passed<sup>1</sup> (Tally: Art VII 115 yeas, 17 nays,

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<sup>1</sup> Following the vote on the Bylaws, the Chair was made aware of a possible violation of the voting procedures, as contained in the newly adopted Constitution. After some consideration, Dr. Stephens asked the conference to

Constitution 132 yeas, 2 nays, Bylaws 125 yeas, 12 nays). During the discussion period preceding the vote on adoption of the Bylaws, a motion was made to vote on Article VII, Section 1, Paragraph b, Subparagraph 3 (Art. VII.1.b.3) separately because an EPA Regional Office Representative believe that other Federal Agencies should not be represented as voting members on NELAC due to their status as regulated entities under environmental statutes. Other members voiced strong opposing opinions. The motion to vote Art. VII.1.b.3 separately was passed. During the vote, all portions of the Bylaws, Art. VII.1.b.3, were adopted.

### **On-Site Assessment**

Mr. Wayne Davis, of the South Carolina Department of Health and Environmental Control and Chair of the On-Site Assessment committee, reviewed the significant issues addressed by the Committee since the last annual meeting. These included:

- The language of Chapter 3 was amended to be consistent with pertinent ISO standards wherever appropriate.
- Provisions were made for conducting both announced and unannounced inspections of laboratories.
- The language addressing Confidential Business Information was modified as a result of discussions regarding the need for NELAC inspectors to review certain types of information typically considered to be proprietary by laboratories.

Mr. Davis requested that the Conference vote on adoption of each of the principal sections of Chapter 3 individually, as follows:

- Section 3.1: Introduction
- Section 3.2: On-Site Assessment Personnel
- Section 3.3: Frequency of On-Site Assessments
- Section 3.4: Pre-Assessment Procedures
- Section 3.5: Assessment Schedule/Format
- Section 3.6: Standards for Assessment

During the discussion of individual sections, a motion was made to vote on Section 3.4.5 (Confidential Business Information Concerns) separately. Several members raised concerns that the language as proposed for the section would inappropriately require laboratories to release confidential information that may not be pertinent to an on-site inspection. At the conclusion of the discussion, Mr. Davis withdrew Section 3.4.5 from the vote and Dr. Stephens asked that it be returned to the Committee for further discussion and resolution. The

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vote a second time on adoption of the Bylaws. No change in the outcome occurred.

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remaining sections of Chapter 3 were all adopted by a substantial majority (117 yeas, 16 nays).

### **Accreditation Process**

Mr. Paul Schuda, of EPA's Office of Prevention, Pesticides and Toxic Substances and Chair of the Accreditation Process Committee summarized the principal changes made to Chapter 4 of the Standards. The changes related to three principal issues, as follows:

- The need to make the chapter consistent with Chapter 2 (Proficiency Testing);
- Issues related to policies regarding denial, revocation, and suspension of accreditation; and
- The need to make the chapter consistent with regard to granting laboratory accreditations on a Fields of Testing basis.

Mr. Schuda requested that the Conference vote to adopt Chapter 4 as proposed, with the exception of Sections 4.1.1 (Personnel Qualifications), 4.1.2 (On-Site Assessments), 4.5.1 (Interim Accreditation), and 4.5.2 (Revocation of Interim Accreditation). These sections will be given further consideration by the Committee. During the discussion that preceded the vote, motions were made and carried to withdraw Sections 4.1.3 (Proficiency Testing Samples) and 4.3.1 (Proficiency Testing Samples) because the language in these sections cannot be finalized until Chapter 2 is adopted. All other Sections of Chapter 4 were adopted by the conference (121 yeas, 13 nays).

### **Accrediting Authority**

Mr. Joseph Aiello, of the New York Department of Environmental Conservation and Chair of the Accrediting authority Committee, presented a report on the progress of Chapter 6. Mr. Aiello reported that the Committee agreed to the following changes in the draft Standards during its July 22 meeting:

- The term "Accrediting Body" will be replaced with the term "Assessor Body."
- The term "NELAP Approval" will be used throughout the document.
- The Committee will address issues related to provisional status and the status of laboratories accredited by programs with provisional status.
- The Committee is developing a revised procedure for appeals.

Mr. Aiello stated that a revised draft version of Chapter 6 will be published prior to the Interim Meeting and will be brought to the Conference for adoption at the next annual meeting.

## **Quality Systems**

Ms. Sylvia Labie, of the Florida Department of Environmental Protection and Chair of the Quality Systems Committee, summarized the efforts of the Committee since the last Annual Meeting. She announced that the Committee was requesting that the Conference consider adoption of Chapter 5 in four blocks, as follows:

- Block 1: Sections 5.0 through 5.3, Sections 5.6 through 5.8, Sections 5.10 through 5.13, Section 5.16 and Appendix A;
- Block 2: Section 5.9;
- Block 3: Appendix B (Definitions), with the exception of definitions for Accrediting Body, Legal Chain of Custody, Technical Director and Test Sensitivity/Power; and
- Block 4: Section 5.5, with the exception of Section 5.5.3.4 (Performance Audits) and Appendix D, with the exception of Section D.1.1.b.4 addressing sample spiking requirements.

Ms. Labie stated that Section 5.5.3.4 (Performance Audits) was not being proposed for adoption because final language should be consistent with the On-Site Assessment standards. Section 5.13 (Laboratory Report Format and Contents) was not proposed for adoption by the Committee because further discussion of required contents is needed. A subcommittee has been established to finalize this section. The Committee will also conduct additional work on Section 5.14 (Subcontracting Analytical Samples). Appendix C will be finalized when EPA finalizes requirements for Performance Based Methods. Ms. Labie noted that additional work on multi-component spiking protocols is needed and consequently, Section D.1.1.b.4 cannot be finalized. Finally, the Committee is conducting further discussions on definitions for four terms: Accrediting Body, Legal Chain of Custody, Technical Director, and Test Sensitivity/Power. Definitions for these terms will be proposed for addition to appendix B at the next Annual Meeting.

Blocks 1, 2 and 3 were adopted by a large majority of the Conference (Block 1: 113 yeas, 3 nays, Block 2: 110 yeas, 3 nays, Block 3: 119 yeas, 2 nays). During the discussion of Block 4, the representative from the Nuclear Regulatory Commission requested that Section D.4 (Radioanalysis) be withdrawn and returned to the Committee for further development. Ms. Labie agreed and withdrew Section D.4 from the vote. The remainder of Block 4 (Section 5.5, with the exception of Section 5.5.3.4 and Appendix D, with the exception of Section D.1.1.b.4 and Section D.4) was adopted (108 yeas, 7 nays).

## **Proficiency Testing**

Ramona Trovato provided the Conference with a report from the Proficiency Testing Committee, in place of Committee Chair, Ms. Andrea Jirka, or EPA's Region 7 Office. Ms. Trovato thanked members of the Committee and others who attended the July 22 meeting. She stated that the Committee has agreed to design a multiple-provider program that will meet



the needs of all environmental programs and ensure the quality of the data. She noted that the Committee addressed the following issues during the July 22 meeting:

- Appropriate frequency for proficiency testing: A straw poll of meeting attendees showed a preference for requiring laboratories to participate in and pass two studies per matrix per year. The second option preferred was a requirement for 4 studies per matrix per year with the even-numbered studies intended to be follow-up studies (non-mandatory). The third preference of the group was a requirement for 2 studies per matrix per year with the second study intended to be follow-up.
- Cost and Number of Matrices: The Committee would like to see the number of proficiency testing samples analyzed nationwide reduced as a result of the NELAC program. Ms. Trovato noted that EPA's Office of Water is interested in obtaining any qualitative or quantitative data assessing the costs associated with proficiency testing study design, distribution, and participation.
- Meeting EPA data quality needs: The committee agreed that it will be essential for Chapter 2 to include standards that meet all of EPA's program data quality needs.
- Minimum number of participants per study: The Committee is examining the draft requirement that all studies require a minimum of 20 participating laboratories in order to be considered valid.
- State use of proficiency testing study providers: The Committee is examining the issue of whether the States should be able to limit the number of proficiency testing study providers accepted by their accreditation programs and the potential affect of this issue on reciprocity and laboratory costs.
- "Normal" processing of proficiency testing samples: The Committee is considering whether the requirement that laboratories certify that proficiency testing samples were processed using "normal" laboratory procedures is appropriate.
- Corrective Action: The Committee is considering some improvements to the section on laboratory corrective action and related documentation and record keeping requirements.
- Remedial samples: The Committee is addressing procedures and requirements for obtaining remedial proficiency testing samples to address failures so that laboratories can rectify suspensions as quickly as possible.
- States as study providers: The Committee is addressing procedures and policies for withdrawing accreditation for state-run proficiency testing provider programs.

Ms. Trovato also noted that Committee member Mr. Chuck Wibby of ERA Inc., made a presentation on accreditation of proficiency testing study providers. The initial list of program elements proposed by Mr. Wibby included:

- Using the NELAC consensus approach for setting the accreditation standards;
- Using EPA to accredit any state-run programs and NIST to accredit private sector providers;
- Requiring an initial on-site audit and a program of monitoring for potential conflicts of interest, confidentiality violations, and compliance with technical standards;
- Designing and implementing a strong oversight program to ensure that quality and technical standards are met.

Mr. Tom Coyner of Analytical Products Group (APG) made a presentation to the Committee on the essential elements of quality proficiency testing samples. He proposed the following list of elements for which standards should be set:

- Homogeneity
- Stability
- Accuracy
- Precision
- Verification
- Sample design
- Statistical acceptance criteria
- Concentration ranges for analytes
- Containers
- Preservatives
- Storage

Mr. Trovato stated that during the discussion on sample design, the group identified a preference for granting accreditation on a basis of a combination of either method and analyte or matrix and analyte because these approaches facilitate efficient and effective study designs.

## **Administrative Committee Reports**

### **Implementation Committee**

Dr. Harry Otto of the State of Delaware provided a progress report on the activities of the Implementation Committee and the outcome of their July 22 meeting. At the meeting, Committee Chair Gary King, of the New Mexico State Legislature, updated Committee members on recent activities which included briefing the National Conference of State Legislators (NCSL) on NELAC and the status of NELAC and asking NCSL staff for their assistance in developing a list of legislators interested in NELAC and environmental laboratory accreditation.

With respect to model legislation development, Dr. Otto reported the following:

- The Committee held a round table discussion on certification legislation models used by some states;
- A Subcommittee has been appointed to gather information on existing state legislation and develop a model. A first draft product is expected to be complete in 30 days.
- The Committee also reviewed a model developed by Dr. King and Mr. David MacLean that is based on the Uniform Food, Drug and Cosmetic Act.

Before adjourning, the Committee unanimously appointed Dr. King as Chair for the coming year.

### **Conference Management Committee**

Mr. Alvin Bober of the Maryland Department of Health and Hygiene, reported for Committee Chair Ms. Marion Thompson. He announced that the NELAC Interim Meeting was proposed to be held during the first week in December in the Washington, D.C. area. Specific details regarding schedule and location for the meeting will be posted on the NELAC Home Page/Bulletin Board as soon as they are available. Mr. Bober also announced that NELAC III will be held during June/July of 1997 in Dallas, TX, consistent with the Committee's preference of taking the meeting to the home state of the in-coming NELAC Chair. He noted that Chair-Elect Batterton has agreed to assist with meeting arrangements. As for the Interim Meeting, details concerning the schedule, location and agenda for NELAC III will be posted on the NELAC section of the TNN/Bulletin Board.<sup>2</sup>

### **Next Steps**

Ms. Mourrain reviewed action items for NELAC and EPA resulting from the meeting, as follows:

- The revised NELAC Standards, constitution and Bylaws; list of Conference attendees; and list of state representatives and their alternates will be posted on the Bulletin Board within 30 days.
- Voting tallies from the NELAC II voting session will also be posted at a later date.
- A summary of NELAC II will be posted within 2 weeks.

Ms. Mourrain noted that there were many issues that could not be addressed fully during the meeting and encouraged members to contact her, Ted Coopwood, or the appropriate

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<sup>2</sup> The TTN Bulletin Board can be found on the Internet at the following address:  
<http://ttnwww.rtpnc.epa.gov>

Committee Chairs to discuss outstanding issues and provide their input. She asked that written comments on all of the documents be provided as soon as possible.

With regard to the next annual Meeting, Ms. Mourrain asked all state representatives and delegates to take steps to ensure that funding is set aside in their budget process to ensure their continuing participation in NELAC. She stated that at NELAC III, the conference will vote on final versions of Chapter 1 (Program Policy and Structure), Chapter 2 (Proficiency Testing), and Chapter 6 (Accrediting Authority). All of these chapters will include important policies and program details that will benefit from active participation by all states and the private sector.

Ms. Mourrain identified the following next steps for EPA staff:

- The NELAC Board of Directors will meet with the EPA Assistant Administrators in a series of meetings scheduled for July 24 and 25.
- A presentation on the outcome of NELAC II will be made to the EMMC Policy Council on August 1.
- The NELAP staff will continue to meet with representatives from other Federal agencies to discuss their continuing participation in NELAC. A schedule of meetings will be established in the near future.
- NELAP will identify a reasonable mechanism for making hard copies of documents to those who do not have access to the Bulletin Board.

Ms. Mourrain thanked everyone who assisted with the meeting and those who attended.

### **Closing**

Dr. Stephens announced that Dr. Eric Rau will be retiring from his position with the New Jersey Department of Environmental Protection and will no longer be serving on the NELAC Board of Directors. Dr. Rau will be replaced on the Board by Mr. Joseph Aiello, also from the New Jersey DEP. Mr. Aiello will serve the remainder of Dr. Rau's term, by appointment as allowed by the NELAC Bylaws. Mr. John Anderson of the Illinois EPA will replace Mr. Aiello as Chair of the Accrediting Authority Committee.

Dr. Stephens introduced incoming NELAC Chair Dr. Charles Hartwig. Dr. Hartwig noted that his first responsibility as chair is to appoint new Committee Chairs and members. He referred the membership to the listing of new committee Chairs and members that was provided with the package of Conference materials and stated that he would appoint all those listed. He further noted that there are numerous unfilled committee slots and asked members to volunteer for committees before leaving.

Dr. Hartwig thanked Dr. Stephens for his dedicated service to NELAC and noted that Dr. Stephens' efforts were critical to the progress made in the past few years. Before adjourning, Dr. Hartwig encouraged members to contact him with any concerns or comments.

## NELAC II Voting Summary

July 22-24, 1996

Vote No.	Issue	REPRESENTATIVES			DELEGATES		
		% Yea	Yea	Nay	% Yea	Yea	Nay
1	CONSTITUTION entire	98%	59	1	99%	73	1
2	BYLAWS omitting §VII 1.B.3	93%	54	4	90%	71	8
3	BYLAWS §VII 1.B.3	89%	50	6	86%	66	11
4	ON-SITE ASSESSMENT §3.1	96%	53	2	100 %	76	0
5	ON-SITE ASSESSMENT §3.2	91%	53	5	93%	70	5
6	ON-SITE ASSESSMENT §3.3 - §3.7 omitting §3.4.5	88%	50	7	88%	67	9
7	ACCREDITATION PROCESS §4.1-§4.7 omitting §4.1.1-§4.1.3, §4.3.1, §4.5.1, § 4.5.2	84%	48	9	95%	73	4
8	QUALITY SYSTEMS §5.0 - §5.4, §5.6 - §5.8, § 5.10 - §5.12, §5.15, §5.16, Appendix A	96%	51	2	98%	62	1
9	QUALITY SYSTEMS §5.9, omitting §5.9.4	94%	50	3	100 %	61	0
10	QUALITY SYSTEMS Appendix B, omitting accrediting body, legal chain of custody, technical director, test sensitivity/power	96%	54	2	100 %	65	0
11	QUALITY SYSTEMS §5.5, omitting §5.5.3.4 Appendix D, omitting D.1.1.b.4, D.4	89%	47	6	98%	61	1

# NELAC II Representatives<sup>a</sup> Voting Record

July 22-23, 1996

Vote No. <sup>b</sup>	1	2	3	4	5	6	7	8	9	10	11
AL											
AK	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
AZ	N	Y	Y	Y	N	N	Y	N	Y	Y	N
AR	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
AS <sup>c</sup>											
CA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CO											
CT	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y
DC	Y										
DE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
FL				Y	Y	Y	Y	Y	Y	Y	Y
GA	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
GU <sup>c</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
HI	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
ID											
IL	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IN	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
KS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
KY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
LA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
ME	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MD	Y	Y	Y	Y	Y	Y	Y				
MA	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
MI	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MN	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

<sup>a</sup>See NELAC II list of Representatives and Alternates, Page 6.

<sup>b</sup>See NELAC II Voting Summary, Page 1.

<sup>c</sup>U.S. Territories: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, Virgin Islands.

Vote No. <sup>b</sup>	1	2	3	4	5	6	7	8	9	10	11
MS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MO											
MT											
NE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
NV											
NH	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
NJ	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
NM	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
NY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
NC	Y	N	N	N	N	N	N		N	N	N
ND	Y	N		N	N	N	N	N	N	N	N
NMI <sup>c</sup>											
OH	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y
OK	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
OR	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
PA	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
PR <sup>c</sup>	Y	Y		Y	Y	Y		Y	Y	Y	Y
RI											
SC	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SD	Y	N	N	Y	Y	Y	N	Y	Y	Y	N
TN											
TX	Y	Y	Y		Y	Y	Y	Y	Y	Y	N
UT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
VT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
VA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
VI <sup>c</sup>											
WA	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
WV											
WI	Y	Y	Y	Y	Y	Y	Y				

<sup>a</sup>See NELAC II list of Representatives and Alternates, Page 6.

<sup>b</sup>See NELAC II Voting Summary, Page 1.

<sup>c</sup>U.S. Territories: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, Virgin Islands.

Vote No. <sup>b</sup>	1	2	3	4	5	6	7	8	9	10	11
WY											
EPA/OAR	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/OECA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/OPPTS	Y	Y	Y	Y	Y	Y					
EPA/ORD	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/OROSLR											
EPA/OSWER	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
EPA/OW	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/R1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/R2	Y	Y	Y	Y	Y						
EPA/R3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/R4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EPA/R5	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y
EPA/R6	Y	Y	Y	Y	Y	Y	Y				Y
EPA/R7	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
EPA/R8	Y	Y	N	Y	Y	N	N	Y	Y	Y	
EPA/R9	Y	Y	N	Y	N	N	N	Y	Y	Y	
EPA/R10											
DOA											
DOC	Y	Y	Y				N	Y		Y	
DOD	Y		Y				N			Y	
DOE										Y	Y
DOI	Y	N	Y		Y	Y	Y	Y	Y	Y	Y
DHHS											
NRC			Y								
NIOSH											
TVA											
HUD											

<sup>a</sup>See NELAC II list of Representatives and Alternates, Page 6.

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